

512



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,977	03/25/2004	Jian Qin	15105.1	9633

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KIMBERLY-CLARK WORLDWIDE, INC.
401 NORTH LAKE STREET
NEENAH, WI 54956

EXAMINER

STEPHENS, JACQUELINE F

ART UNIT PAPER NUMBER

3761

DATE MAILED: 03/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

5N

Office Action Summary	Application No. 10/810,977	Applicant(s) QIN ET AL.	
	Examiner Jacqueline F Stephens	Art Unit 3761	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>8/9/04</u> . | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 9-12, and 19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 9-12 recite the limitation "a reduction in the surface tension of saline" and "floating time" in line 2. There is insufficient antecedent basis for this limitation in the claim, additionally applicant has not defined saline with respect to a test procedure.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-8, 13, 15-17, 18, and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Bashaw et al. USPN 3989586.

As to claims 1 and 2, Bashaw discloses a method of making a permanently wettable superabsorbent material, comprising: treating the superabsorbent material with a surfactant solution (col. 2, lines 9-11); wherein the surfactant has at least one first functional group reactive (reactive solvent) with a second functional group of the

Art Unit: 3761

superabsorbent material (col. 3, lines 49-60) and at least one non-reactive and hydrophilic functional group (col. 4, lines 35-68). Bashaw discloses the crosslinked copolymer is further activated with methanol, dried and processed in fiber form (col. 4, lines 1-21). The surfactant solution includes an amount of water sufficient to solvate the surface of the superabsorbent material but less than sufficient to cause significant swelling of the superabsorbent material (col. 4, lines 1-5).

As to claim 3, Bashaw discloses drying the treated superabsorbent material to remove the solvent and the water (col. 2, lines 14-16).

As to claim 4, Bashaw discloses washing the treated superabsorbent material with a solvent to remove fugitive surfactant (col. 3, lines 3-6).

As to claim 5, the treatment is by immersion (col. 5, lines 5-15).

As to claims 6-8, Bawash discloses the superabsorbent material is a fibrous form (col. 2, lines 6-45).

As to claim 13, see col. 2, lines 6-8.

As to claims 15 and 16, see col. 4, lines 35-68.

As to claim 17, see col. 3, lines 57-59 and col. 4, lines 21-29.

As to claim 18, see Example 1.

As to claim 21, Bashaw discloses the surfactant is applied to the superabsorbent material when the superabsorbent material is in powder form, which the examiner interprets to be in a solvated state, as the copolymer is solubized in the solvent to form the powdered copolymer (col. 5, lines 23-27).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

Art Unit: 3761

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

7. Claims 14 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bashaw in view of Paul et al. USPN 6217890. Bashaw discloses the present invention substantially as claimed. However, Bashaw does not disclose the claimed group of materials. Paul discloses high absorbency materials in the claimed group as a natural alternative to synthetic high absorbency materials (col. 25, lines 25-40). Therefore, because the natural materials as disclosed in Paul are art-recognized equivalents at the time the invention was made, one of ordinary skill in the art would have found it obvious to substitute the natural materials for the synthetic material, such as maleic anhydride disclosed in the Bashaw reference.

As to claim 20, Bashaw discloses the paper product is highly absorbent (col. 7, lines 18-20). However, Bashaw does not specifically disclose the fiber in a disposable absorbent product as claimed. Paul discloses a similar treated superabsorbent material for use in a diaper comprising a liquid-permeable topsheet 22, a backsheet 20 attached to the topsheet, and an absorbent structure 24 made with a treated superabsorbent fiber positioned between the topsheet and the backsheet for the benefit of having highly absorbent material in a relatively thin absorbent article (Paul col. 24, line 52 through col. 25, line 52). It would have been obvious to one having ordinary skill in the art at the time of the invention to incorporate the invention of Bashaw into a disposable absorbent


Art Unit: 3761

article as claimed, since the invention of Bashaw provides a highly absorbent article, which both reference teach is desired.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacqueline F Stephens whose telephone number is (571) 272-4937. The examiner can normally be reached on Monday-Friday 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Schwartz can be reached on (571)272-4390. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Jacqueline F Stephens
Examiner
Art Unit 3761

March 7, 2005